

**Amendments to and listing of the Claims:**

Please amend claims 1-15 and add new claims 16-17, as follows. This listing of claims will replace all prior versions, and listings of claims in the application:

1. (Currently Amended) Apparatus~~An apparatus for the interstitial coagulation of tissues, with at least one electrode (10) by way of which a HF coagulation current can be conducted into the tissue, wherein the electrode (10) is constructed as comprising a three-dimensional body that can be expanded to various states of expansion, or is attached to such a body (14), so that by continuous or and at least one electrode adapted to conduct an HF coagulation current into said tissue, the electrode forming at least a part of said three-dimensional body such that by one of continuous and stepwise expansion of [[the]] said body (10, 14) the said electrode (10) can be kept in constant electrical contact with the tissue during coagulation.~~
2. (Currently Amended) Apparatus~~The apparatus according to Claim 1, characterized in that wherein a control device[[+3+]] is provided for controlling the [[state]] degree of expansion of the body (10, 14) in dependence dependent on [[the]] said coagulation current.~~
3. (Currently Amended) Apparatus~~The apparatus according to one of the preceding claims, in particular according to Claim 2, characterized in that they wherein said control device (3) is disposed and constructed so as is adapted to enable an adjustment of a current density of [[the]] said coagulation current between said electrode [[+10+]] and said tissue.~~
4. (Currently Amended) Apparatus~~according to one of the preceding claims, in particular~~The apparatus according to Claim 3, characterized in that the wherein said control device (3) is designed so that permits the current density [[ear]] to be adjusted independently of the [[state]] degree of expansion.
5. (Currently Amended) Apparatus~~The apparatus according to one of the preceding claims, characterized in that~~Claim 1, wherein measurement devices

[[—(4)]] are provided for detecting the state of expansion of the said three-dimensional body ~~(10, 14).~~

6. (Currently Amended) Apparatus according to one of the preceding claims, characterized in that the Claim 1, wherein said electrode comprises a treatment electrode[[—(10)]] that is at least partially permeable to liquid and that can be brought into contact with a section of [[the]] said tissue, as well as a and comprising a liquid-supply device—(20) for liquid through which an electrically conductive liquid can be delivered to [[the]] said treatment electrode [[—(10)]], and a current supply device (30, 31) adapted to deliver [[the]] said HF coagulation current to [[the]] said treatment electrode [[—(10)]] in such a way that [[the]] said HF treatment current can be is conducted to the liquid that is passing through the treatment electrode[[—(10)]].

7. (Currently Amended) Apparatus according to one of the preceding claims, in particular The apparatus according to Claim 6, characterized in that the wherein said treatment electrode [[—(10)]] comprises one of an elastically stretchable [[or]] and an unfoldable surface element (11) on the inside (12) of which, i.e. the side opposite the tissue, there is disposed that defines an interior space [[—(13)]] to which an internal pressure can be applied so that the to expand said surface element (11) can be expanded by increasing the internal pressure.

8. (Currently Amended) Apparatus according to one of the preceding claims, in particular The apparatus according to Claim 7, characterized in that the wherein said surface element (11) is shaped like is in the form of one of a ring [[or]] and a sphere.

9. (Currently Amended) Apparatus according to one of the preceding claims, in particular according to one of the claims 6—8, characterized in that the The apparatus according to Claim 6, wherein said treatment electrode (10, 10') is constructed in the [[shape]] form of a balloon catheter.

10. (Currently Amended) Apparatus according to one of the preceding claims, in particular according to one of the claims 7—9,

~~characterized in that the~~The apparatus according to Claims 7, wherein said interior space (13) eanis adapted to be filled with [[the]] said electrically conductive liquid.

11. (Currently Amended) ~~Apparatus according to one of the preeeding claims, in particular according to one of the claims 6 - 10,~~  
~~characterized in that the~~The apparatus according to Claim 6, wherein said electrically conductive liquid comprises one of polyvinyl pyrrolidone (PVP), a surfactant [[or]] and a similar means of changing the viscosity of [[the]] said electrically conductive liquid.

12. (Currently Amended) ~~Apparatus according to one of the preeeding claims, in particular according to one of the claims 6 - 11,~~  
~~characterized in that the treatment electrode (10, 10')~~ comprises a film, a felt or a woven fabric and preferably~~The apparatus according to Claim 6, wherein said treatment electrode~~ is made of a thermally stable material, in particular a tetrafluoroethylene material— in the form of one of a film, a felt and a woven fabric.

13. (Currently Amended) ~~Apparatus according to one of the preeeding claims, in particular according to one of the claims 7 - 12,~~  
~~characterized in that the interior space (13) comprises~~The apparatus according to Claim 7, wherein said interior space is enclosed by an expandable auxiliary body [[(-14)]] that is hydraulically separated from [[the]] said electrically conductive liquid, [[the]] and said surface element (11) preferably beingis constructed in several layers ~~so~~such that in an inner layer [[(-15)]] liquid can be conducted in the surface a direction [[while]] towards an outer surface of the element and in an outer layer [[(-16)]] liquid can be conducted in a direction perpendicular to the surface direction, and preferably between the inner layer (15) and the outer layer (16) a partition layer (17) with a greater resistance to flow is disposed.

14. (Currently Amended) ~~Apparatus~~The apparatus according to one of the preeeding claims, characterized byClaim 6, wherein a suction device (22, 23) is provided to suck away ~~(excess)~~ liquid.

15. (Currently Amended) ~~Apparatus~~The apparatus according to one of the preeeding claims, characterized in that theClaim 1, wherein said electrode (10)

~~is constructed so that is adapted to be supplied with a cutting current can be applied to it.~~

16. (New) The apparatus as claimed in Claim 12, wherein said thermally stable material is comprised of tetrafluoroethylene.

17. (New) The apparatus as claimed in Claim 13, wherein a partition layer with a greater resistance to liquid flow than said inner layer is disposed between said inner layer and said outer layer.